# Meige disease

Meige disease is a condition that affects the normal function of the lymphatic system. The lymphatic system consists of a network of vessels that transport lymphatic fluid and immune cells throughout the body. Meige disease is characterized by the abnormal transport of lymphatic fluid. When this fluid builds up abnormally, it causes swelling (lymphedema) in the lower limbs.

Meige disease is classified as a primary lymphedema, which means it is a form of lymphedema that is not caused by other health conditions. In Meige disease, the lymphatic system abnormalities are present from birth (congenital), although the swelling is not usually apparent until puberty. The swelling often begins in the feet and ankles and progresses up the legs to the knees. Some affected individuals develop non-contagious skin infections called cellulitis or erysipelas in the legs, which can further damage the vessels that carry lymphatic fluid.

# Frequency

The prevalence of Meige disease is unknown. Collectively, the many types of primary lymphedema affect an estimated 1 in 100,000 people younger than 20; Meige disease is the most common type of primary lymphedema.

For unknown reasons, this condition affects females about three times as often as males.

# **Genetic Changes**

The cause of Meige disease is unknown. The condition is thought to be genetic because it tends to run in families, and other forms of primary lymphedema have been found to have a genetic cause. Researchers have studied many genes associated with the lymphatic system; however, no genetic change has been definitively found to cause the signs and symptoms of Meige disease.

#### Inheritance Pattern

Meige disease appears to have an autosomal dominant pattern of inheritance. Autosomal dominant inheritance means one copy of an altered gene in each cell is sufficient to cause the disorder, although no genes have been associated with Meige disease.

People with Meige disease usually have at least one other affected family member. In most cases, an affected person has one parent with the condition. When the condition occurs in only one person in a family, the condition is described as Meige-like disease.

## Other Names for This Condition

- hereditary lymphedema II
- late-onset lymphedema
- LMPH2
- lymphedema praecox
- Meige lymphedema

# **Diagnosis & Management**

# **Genetic Testing**

 Genetic Testing Registry: Lymphedema praecox https://www.ncbi.nlm.nih.gov/gtr/conditions/C1704425/

## Other Diagnosis and Management Resources

 Johns Hopkins Medicine: Lymphedema Management http://www.hopkinsmedicine.org/physical\_medicine\_rehabilitation/\_downloads/ lymphedema.pdf

#### General Information from MedlinePlus

- Diagnostic Tests
   https://medlineplus.gov/diagnostictests.html
- Drug Therapy https://medlineplus.gov/drugtherapy.html
- Genetic Counseling https://medlineplus.gov/geneticcounseling.html
- Palliative Care https://medlineplus.gov/palliativecare.html
- Surgery and Rehabilitation https://medlineplus.gov/surgeryandrehabilitation.html

#### **Additional Information & Resources**

## MedlinePlus

 Health Topic: Lymphedema https://medlineplus.gov/lymphedema.html

#### Genetic and Rare Diseases Information Center

Hereditary lymphedema type II
 https://rarediseases.info.nih.gov/diseases/3324/hereditary-lymphedema-type-ii

### Additional NIH Resources

 National Cancer Institute: Lymphedema https://www.cancer.gov/about-cancer/treatment/side-effects/lymphedema/ lymphedema-pdq

### **Educational Resources**

- Boston Children's Hospital: Lymphedema in Children http://www.childrenshospital.org/conditions-and-treatments/conditions/l/ lymphedema
- Cincinnati Children's Hospital: Lymphedema https://www.cincinnatichildrens.org/health/l/lymphedema
- Cleveland Clinic: Lymphedema http://my.clevelandclinic.org/health/articles/lymphedema
- CLIMB: Lymphedema Information Sheet http://www.climb.org.uk/IMD/Lima/Lymphedaemia.pdf
- Disease InfoSearch: Lymphedema hereditary type 2 http://www.diseaseinfosearch.org/Lymphedema+hereditary+type+2/4359
- Merck Manual Home Edition for Patients and Caregivers: Lymphedema http://www.merckmanuals.com/home/heart-and-blood-vessel-disorders/lymphatic-disorders/lymphedema
- Orphanet: Late-onset primary lymphedema http://www.orpha.net/consor/cgi-bin/OC\_Exp.php?Lng=EN&Expert=289825
- Orphanet: Meige disease http://www.orpha.net/consor/cgi-bin/OC\_Exp.php?Lng=EN&Expert=90186
- Society for Vascular Surgery: Lymphedema https://vascular.org/patient-resources/vascular-conditions/lymphedema

# Patient Support and Advocacy Resources

- CLIMB: Children Living with Inherited Metabolic Diseases http://www.climb.org.uk/
- Lymphatic Research Foundation http://lymphaticnetwork.org/
- National Organization for Rare Disorders (NORD): Hereditary Lymphedema https://rarediseases.org/rare-diseases/hereditary-lymphedema/
- The Lymphoedema Support Network http://www.lymphoedema.org/

# ClinicalTrials.gov

ClinicalTrials.gov

https://clinicaltrials.gov/ct2/results?term=%22Meige+disease%22+%5BDISEASE%5D+OR+%22Meige+lymphedema%22+%5BDISEASE%5D+OR+NCT01068431+%5BID-NUMBER%5D+OR+NCT00951470+%5BID-NUMBER%5D+OR+NCT01239160+%5BID-NUMBER%5D+OR+NCT01096589+%5BID-NUMBER%5D+OR+NCT00984269+%5BID-NUMBER%5D+OR+NCT00155220+%5BID-NUMBER%5D+OR+NCT00833599+%5BID-NUMBER%5D

## Scientific Articles on PubMed

PubMed

https://www.ncbi.nlm.nih.gov/pubmed?term=%28%28meige+disease%5BTIAB%5D%29+OR+%28lymphedema+praecox%5BTIAB%5D%29%29+AND+english%5Bla%5D+AND+human%5Bmh%5D

## **OMIM**

 LYMPHEDEMA, HEREDITARY, II http://omim.org/entry/153200

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Citation on PubMed: https://www.ncbi.nlm.nih.gov/pubmed/17641125

## Reprinted from Genetics Home Reference:

https://ghr.nlm.nih.gov/condition/meige-disease

Reviewed: July 2015

Published: March 21, 2017

Lister Hill National Center for Biomedical Communications U.S. National Library of Medicine National Institutes of Health Department of Health & Human Services